

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

1. The application has been amended as follows:

In claim 2, line 3, "such" has been changed to "such that".

Claims 1-6 and 16-20 have been renumbered as claims 1-11, respectively.

2. The following is an examiner's statement of reasons for allowance: prior art does not teach or suggest in combination of the combined limitations of

a transmitter in a Direct Sequence Code Division Multiple Access (DS/CDMA) system, the transmitter comprising: a PN sequence generator for generating multiple Pseudo random Noise (PN) sequences; a space-time encoder for selecting two PN sequences from the multiple PN sequences to construct Space-Time Trellis Codes (STTC), and space-time encoding data received from a data source according to the space-time trellis codes to output an M-ary data symbol; first and second modulators for modulating the space-time encoded data according to the space-time trellis codes; and first and second multiple transmit antennas for wirelessly transmitting outputs of the first and second modulators, respectively (emphasis added) as recited in claim 1;

a transmitting method in a Direct Sequence Code Division Multiple Access (DS/CDMA) system, the method comprising: receiving data from a data source; generating multiple Pseudo random Noise (PN) sequences; selecting two PN sequences from the multiple PN sequences to construct Space- Time Trellis Codes (STTC); space-time encoding data received from the data source according to the space- time trellis codes to output an M-ary data symbol; and modulating each of the space-time encoded data according to the space-time trellis codes and wirelessly transmitting the modulated data (emphasis added) as recited in claim 16. It is noted that the method above require that the method be implemented by a particular machine or hardware imposing a meaningful limit on the claim scope wherein the space-time encoding and modulating steps is implemented by a hardware, the hardware discloses in the specification is space-time encoder and modulator.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Ahn whose telephone number is (571) 272-3044. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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/Sam K. Ahn/  
Primary Examiner, Art Unit 2611

4/3/2010